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APPLICATION N	O. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/781,133	10/781,133 02/17/2004		Cheng-Yen Shih	TSAI0008	3372
22862	7590	06/14/2005		EXAM	INER
GLENN	PATENT (GROUP	KINKEAD, ARNOLD M		
3475 EDISON WAY, SUITE L MENLO PARK, CA 94025				ART UNIT	PAPER NUMBER
WIENEO	MENDO FAICK, CA 94025			2817	
			DATE MAILED: 06/14/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Los					
	Application No.	Applicant(s)					
Office Action Commence	10/781,133	SHIH, CHENG-YEN					
Office Action Summary	Examiner	Art Unit					
	Arnold M. Kinkead	2817					
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	th the correspondence address					
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state of the period for reply will be p	N. R 1.136(a). In no event, however, may a re reply within the statutory minimum of thirty iod will apply and will expire SIX (6) MONT atute, cause the application to become ABA	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133)					
Status							
1) Responsive to communication(s) filed on _							
	 his action is non-final.						
	_						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-10</u> is/are pending in the applicati	ion.						
4a) Of the above claim(s) is/are without	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,2 and 6-10</u> is/are rejected.	Claim(s) 1,2 and 6-10 is/are rejected.						
7)⊠ Claim(s) <u>3-5</u> is/are objected to.	Claim(s) 3-5 is/are objected to.						
8) Claim(s) are subject to restriction and	Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Exam	iner.						
)⊠ The drawing(s) filed on <u>17 February 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to t							
Replacement drawing sheet(s) including the corr	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p	ents have been received. ents have been received in Ap priority documents have been i	oplication No					
application from the International Bur * See the attached detailed Office action for a	, , , , , , , , , , , , , , , , , , , ,	received					
	ist of the defining copies flot i	SSSIVEG.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview S	ummary (PTO-413)					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/)/Mail Date formal Patent Application (P/NO-152)					
Paper No(s)/Mail Date	6) Other:						

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 6-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

 In claim 6, line 14, it is not clear what is meant by the "the adjustable capacitor generates inductance..."?

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shintani et al(US 6,583,677) in view of Nakano (US 5,952,901).

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The reference by Shintani et al discloses a vco(see figures 1,2, and 3), figure 3 showing the vco circuit resonator(LC tank), coupling cap(C) connecting the resonant tank to the oscillator amp circuit(Tr). Note the conductive layers(1a, top with patterned micro-strips for connecting surface elements), a lower conductive layer 1c is shown with insulative glass layer between(see col. 9, lines 10-30). Note 1f connecting the upper(top) and lower micro-strip patterns. The reference tunes the oscillator by way of laser trimming an inductive pattern on the lower layer(1c).

The reference does not show a capacitance being formed and tuned between the layers, but this is conventional and will be highlighted by Nakano. The reference by Nakano discloses an adjustable capacitance that may be part of a vco, see background and figures 1 and 4, where striplines 4 and 5 together form the capacitor within the layers and a slot 2a allows for trimming and adjustment of the component.

In light of the above, it would have been obvious to have recognized that the Shintani et al reference, albeit silent on capacitive tuning, could have included such a capacitive component within its layers to be trimmed as desired as highlighted by Nakano, both inductor and capacitor components being notoriously well known in the art to be part of the vco frequency adjustment circuit and both can be trimmed by a laser via an access port.

Allowable Subject Matter

- 6. Claims 3-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- Claims 6-10 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112,
 2nd paragraph, set forth in this Office action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed

to Arnold M. Kinkead whose telephone number is 571-272-1763. The examiner can normally be reached on Mon-Fri,

8:30 am -5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal

can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is

assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information

Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or

Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more

information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the

Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Arnold M Kinkead

Primary Examiner

Art Unit 2817

Arnold Kinkead

June 10, 2005